

Claims

- [1] An information storage medium comprising:
a lead-in area storing basic information regarding the information storage medium;
a lead-out area indicating an end of the information storage medium;
a plurality of types of data areas requiring different optimal read powers; and
different optimal read power information for the plurality of types of data areas.
- [2] The information storage medium of claim 1, wherein the different optimal read power information is recorded in at least one of the lead-in area and the lead-out area.
- [3] The information storage medium of claim 2, wherein the different optimal read power information is recorded in arbitrary fields within a control data zone in the lead-in area.
- [4] The information storage medium of claim 3, wherein the different optimal read power information is recorded in units of 1 byte, four most significant bits among 1-byte optimal read power information express an integer part of an optimal read power, and four least significant bits among the 1-byte optimal read power information express a fraction part of the optimal read power.
- [5] The information storage medium of claim 3, wherein the different optimal read power information is recorded in a form of pits or groove-wobbles to prevent the different read power information from being changed.
- [6] The information storage medium of claim 1, wherein the plurality of types of data areas comprise an area which information is recorded/reproduced on/from according to a super-resolution principle.
- [7] A method of recording/reproducing data on/from a hybrid information storage medium including a plurality of types of data areas requiring different optimal read powers according to different optimal read power information recorded on the hybrid information storage medium, the method comprising:
recording the different optimal read power information for the plurality of types of data areas on the hybrid information storage medium;
reading the different optimal read power information for each data area from the hybrid information storage medium; and
reproducing data from the data area with an optimal read power corresponding to the data area.
- [8] The method of claim 7, wherein the different optimal read power information is recorded in at least one of a lead-in area and a lead-out area on the hybrid information storage medium.

- [9] The method of claim 7, wherein the reproducing of data comprises:
determining a type of the data area from which the data is reproduced; and
controlling an output of a laser diode according to an optimal read power corresponding to a result of the determination.